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(54) Title: METHOD FOR SIMULTANEOUS EXTRACTION OF NUCLEIC ACIDS FROM A BIOLOGICAL SAMPLE

(57) Abstract: A new method of simultaneous and separate extraction of deoxyribonucleic acid (DNA) and ribonucleic acid (RNA) from a biological sample, indifferently from fresh, frozen, fixed or autaptic tissue with a weight no less than 5 mg. The main steps of the method are: 1/ sample lysis in a solution composed of a caotropic agent (urea or guanidine salt), a ionic detergent (SDS or SLS), a proteolytic enzyme (proteinase K, trypsin, chymotrypsin, pepsin or pronase), a reducing agent (β -mercaptoethanol or dithiothreitol); 2/ deproteinization; 3/ precipitation of RNA from aqueous phase; 4/ precipitation of DNA from organic phase. The invention includes an extraction kit for nucleic acids, also of viral origin.

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